



PRODUCT DATA SHEET



EMCELLE[®] E-D₃ LIQUID

MICELLIZED, WATER-DISPERSIBLE, LIQUID VITAMIN E and D
(500 I.U. vitamin E (d-*alpha*-tocopherol) and 30,000 I.U. vitamin D₃ per mL)
NDC 59007-3030-1

DESCRIPTION

EMCELLE E-D₃ LIQUID is a clear, micellized, water-dispersible, liquid solution of vitamin E and vitamin D. The product is specially formulated for use in liquid diets or mixed into drinking water. The product should not be mixed into complete feeds and stored for extended periods of time due to the unstable form of vitamin E.

Vitamin E activity is provided as d-*alpha*-tocopherol (RRR-*alpha*-tocopherol), a natural-source and biologically active form of vitamin E. This form of vitamin E, although less stable than ester-forms of tocopherol, does not have to be hydrolyzed prior to intestinal absorption. This appears to be of greater importance to young poult that may have a deficiency of esterase enzymes necessary to cleave the ester from the tocopheryl moiety prior to absorption. Newly-hatched chicks and poult have been shown not to be able to efficiently utilize vitamin E-acetate supplemented in feed (Waibel et al., 1994. J. Appl. Poultry Res. 3:261-267; Soto-Salanova. Ph.D. Dissertation, Iowa State Univ., 1995; Bottje et al. 1997, Poultry Sci. 76:1506-1512). Furthermore, the micellization process enhances the ability of young animals to utilize vitamin E.

The vitamin D activity is provided as cholecalciferol. Vitamin D, like vitamin E, needs to be micellized prior to being absorbed. EMCELLE E-D₃ LIQUID is the first to provide micellized vitamin D to enhance absorption.

The micellization process enhances the ability of animals to utilize fat-soluble vitamins. The process allows the solubilized fat-soluble vitamins to be absorbed more readily than dry, oil-based, or emulsion- forms of fat-soluble vitamins. Typically, supplemental fat-soluble vitamins have to be micellized prior to being absorbed.

PACKAGE SIZE

Available in 1 liter (33.8 fl oz) plastic bottles. Twelve bottles per shipper.

FOR ANIMAL USE ONLY – NOT FOR HUMAN USE

Store at room temperature or under refrigeration.
Avoid freezing and excessive heat.



DRINKING WATER DIRECTIONS

To prepare a proportioner stock solution for poultry, mix 3 oz. **EMCELLE E-D₃** to one (1) gallon of water.

Meter the stock solution at the rate of 1 fl. oz. per gallon of drinking water. This will provide approximately **340 I.U. vitamin E** and **20,400 I.U. vitamin D** per gallon drinking water.

For newly-hatched poultry, **EMCELLE E-D₃** should be administered for up to two weeks post-hatching.